

NWS FORM E-19 (COVER)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

REPORT ON RIVER GAGE STATION

REVISED, PRINTED DATES: 08/22/2010, 08/22/2010

LOCATION: GLEN ELDER LAKE
STREAM: SOLOMON RIVER
BASIN: SOLOMON 12

HSA: GID

REFERENCES:

STATION DESCRIPTION USGS 4/24/1996
USGS STATION DESCRIPTION - 1/31/02

ABBREVIATIONS:

BM	- bench mark	EPA	- Environmental Protection Agency
DS	- downstream	IBWC	- International Boundary and Water Comm.
US	- upstream	MSRC	- Mississippi River Commission
HW	- high water	MORC	- Missouri River Commission
LW	- low water	NOAA	- National Oceanic and Atmospheric Admin.
RB	- right bank	NOS	- National Ocean Survey
LB	- left bank	NWS	- National Weather Service
MGL	- mean gulf level	TVA	- Tennessee Valley Authority
MLW	- mean low water	USACE	- U.S. Army Corps of Engineers
MSL	- mean sea level	USBR	- U.S. Bureau of Reclamation
MLT	- mean low tide	USGS	- U.S. Geological Survey
MT	- mean tide	USWB	- U.S. Weather Bureau
WQ	- water quality	NGVD	- National Geodetic Vertical Datum
RM	- reference mark	NAD	- North American Datum
RP	- reference point		

LOCATION IDENTIFICATION: GLNK1
NWS INDEX NUMBER: 14-3100-2
USGS NUMBER: 06874200

MAP OF GAGE LOCATION

LATITUDE: 39 29 46
LONGITUDE: 98 18 48

SOURCE: USGS STN DESCRIPTION

LOCATION: SOLOMON RIVER AT GLEN ELDER LAKE, KS
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BENCHMARKS

ELEVATION OF GAGE ZERO: VERTICAL DATUM: NGVD 1929
LEVELING AGENCY AND DATE: USGS - 04/24/96 CHECKBAR: 96.230
RATING AGENCY: USGS

BENCHMARK	DESCRIPTION	GAGE ZERO	DATUM
BM1	USBR BRASS CAP "NORTH MASTER BENCH MARK", SOUTH OF THE RESERVOIR OFFICE, ABOUT 30 FT WEST OF PAVED ROAD, PROTECTED BY A METAL FENCE POST.		1502.134
RM1	USGS BRASS CAP SET IN UPSTREAM ABUTMENT, LEFT BANK OF GRANITE CREEK BRIDGE.		1494.874
RM2	CHISELED SQUARE ON LEFT DOWNSTREAM WINGWALL OF RAILROAD BRIDGE AT WIRE WEIGHT LOCATION.		1489.304
RM3	CHISELED SQUARE ON LEFT DOWNSTREAM SIDE (SE CORNER) OF BRIDGE.		1494.868
RM4	CHISELED SQUARE ON RIGHT DOWNSTREAM SIDE (SW CORNER) OF BRIDGE.		1494.972

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GAGES

DCP

TELEM

NESS ID: 346F540A
OWNER: USBR
REPORT TIME: 0203
INTERVAL: 240
CRITERIA: 1723050A 0136
PAYOR/COST OF LINE: / \$

TYPE OF TELEMETRY:
OWNER:
PHONE NUMBER:
INTERVAL:

1/12/07

GAGE TYPE	OWNER	MAINTENANCE	BEGAN	ENDED	GAGE LOCATION/REMARKS
bubble	USBR	USBR	06/04/1969	11/01/1999	USGS INSTALLED A WATER-PRESSURE SERVO-MANOMETER GAGE.
bubble	USGS	USGS	04/12/1994		A SUTRON SHAFT-ENCODER AND SUTRON 8004 DCP INSTALLED 4/12/94.
wireweight	USBR	USBR	03/12/1996		GAGE MOUNTED ON THE UPSTREAM BRIDGE RAIL OF THE BRIDGE OVER GRANITE CREEK, WHICH IS ABOUT 3.5 MI WEST ON U.S. 24.

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HISTORY

PUBLICATION/LOCATION OF RECORDS	STARTING DATE	ENDING DATE
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TYPE OF GAGE	OWNER	STARTING DATE	ENDING DATE
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bubble	USBR	06/04/1969	11/01/1999
bubble	USGS	04/12/1994	
wireweight	USBR	03/12/1996	

ZERO ELEVATION	STARTING DATE
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CRESTS

FLOOD STAGE: ACTION STAGE: BANKFULL STAGE: 0.00
 FLOOD FLOW: 0 ACTION FLOW:

DATE OF CREST	TIME LST	CREST (ft)	FLOW (CFS)	FROM HIGH WATERMARKS	BASED ON OLD DATUM	CAUSED BY ICE JAM	REMARKS

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LOW WATER RECORDS

DATE OF LOW WATER	STAGE (ft)	FLOW (CFS)	REMARKS
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CONDITIONS AFFECTING FLOW

MILES ABOVE MOUTH: 172.4 DRAINAGE AREA: 5076.0 POOL STAGE: 1428.0

STREAM BED: RESERVOIR

REACH:

REGULATION: THE DAM IS A ROLLED EARTH-FILL STRUCTURE 15,725 FT IN LENGTH WITH A MAXIMUM HEIGHT OF 115 FT ABOVE THE STREAMBED. THE UPSTREAM SIDE IS FACED WITH SOIL CEMENT. SPILLWAY LOCATED AT THE SOUTH END OF THE STRUCTURE, CONSISTING OF 12 RADIAL GATES.

DIVERSION: NA

WINTER:

TOPOGRAPHY: ROLLING HILLS LIGHTLY WOODED

REMARKS: OUTLET IS A 12.5 FT TUNNEL WITH A SILL AT 1407.8 FT AND CAN DISCHARGE 4000 CFS AT RESERVOIR ELEVATION 1455.6 FT AND 5200 CFS AT ELEVATION 1488.3

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DAMAGE

STAGE	AREAS AFFECTED
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RIVER STAGE DATA

REACH:

ELEVATION ZERO: nan

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CONTACTS

SQ	CONTACT/REMARKS	PHONE
1	TONI WOOD BUREAU OF RECLAMATION EMPLOYEE WILL ANSWER	785-545-3314
2	KS USGS MAINTENANCE.	785-628-8918

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